

**T.Y.B.SC. (Computer Science) SEM –VI (2014 COURSE) : WINTER -  
2018**

**SUBJECT: UNIFIED MODELING LANGUAGE**

Day: Wednesday  
Date: 17/10/2018

Time: 03.00 PM TO 05.00 PM  
Max. Marks: 40

**W-2018-0975**

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**N.B:**

- 1) All questions are **COMPULSORY**.
  - 2) Figures to the right indicate **FULL** marks.
  - 3) Draw neat and labeled diagram **WHEREVER** necessary.
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**Q.1** Answer **ANY TWO** of the following: **(10)**

- a) Explain features of Unified Modeling Language.
- b) What is object? Describe characteristics of object.
- c) Explain class diagram with suitable example.

**Q.2** Answer **ANY TWO** of the following: **(10)**

- a) Draw and explain architecture of UML.
- b) Explain object diagram with suitable example.
- c) Explain steps in analysis process.

**Q.3** Answer **ANY TWO** of the following: **(10)**

- a) What is nested state diagram? State the features of nested state diagram.
- b) Draw use case diagram for ATM management system. Discuss different use cases.
- c) What is inheritance? Explain all the types of inheritance.

**Q.4** Answer **ANY FIVE** of the following: **(10)**

- a) What is abstract class?
- b) What is aggregation?
- c) Define component diagram.
- d) State any four advantages of UML.
- e) Define link in UML.
- f) What is generalization?
- g) Write a short note on association.

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